

THE ROCKEFELLER INSTITUTE FOR MEDICAL RESEARCH

66TH STREET AND YORK AVENUE
NEW YORK 21, N.Y.

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Dear Dr. Lederberg:

I wonder whether it would be possible for me to obtain strains of K₁₂ - I would like to use them to attempt to prepare mutants by the Pencillium method - mutants connected with porphyrin synthesis.

I would rather start with a sexual organism if possible and that is why I have thought of your K₁₂ strain. I am told however that there's the added complication of prophage. Do you have any K₁₂ free of prophage? Or does that make any difference in growth?

For porphyrin mutants it would be ideal to start with a highly aerobic, rapidly respiring bacterium - on the assumption that the more actively respiring ones have more porphyrin enzymes. Does your K₁₂ use up lots of O₂ ~~OK~~ under aerobic conditions? Could one use the

penicillin technique on some other actively aerobic
bacterium - other than *B. coli*?

I shall be grateful for any advice and
suggestions you may have.

Cordially
S. Granick